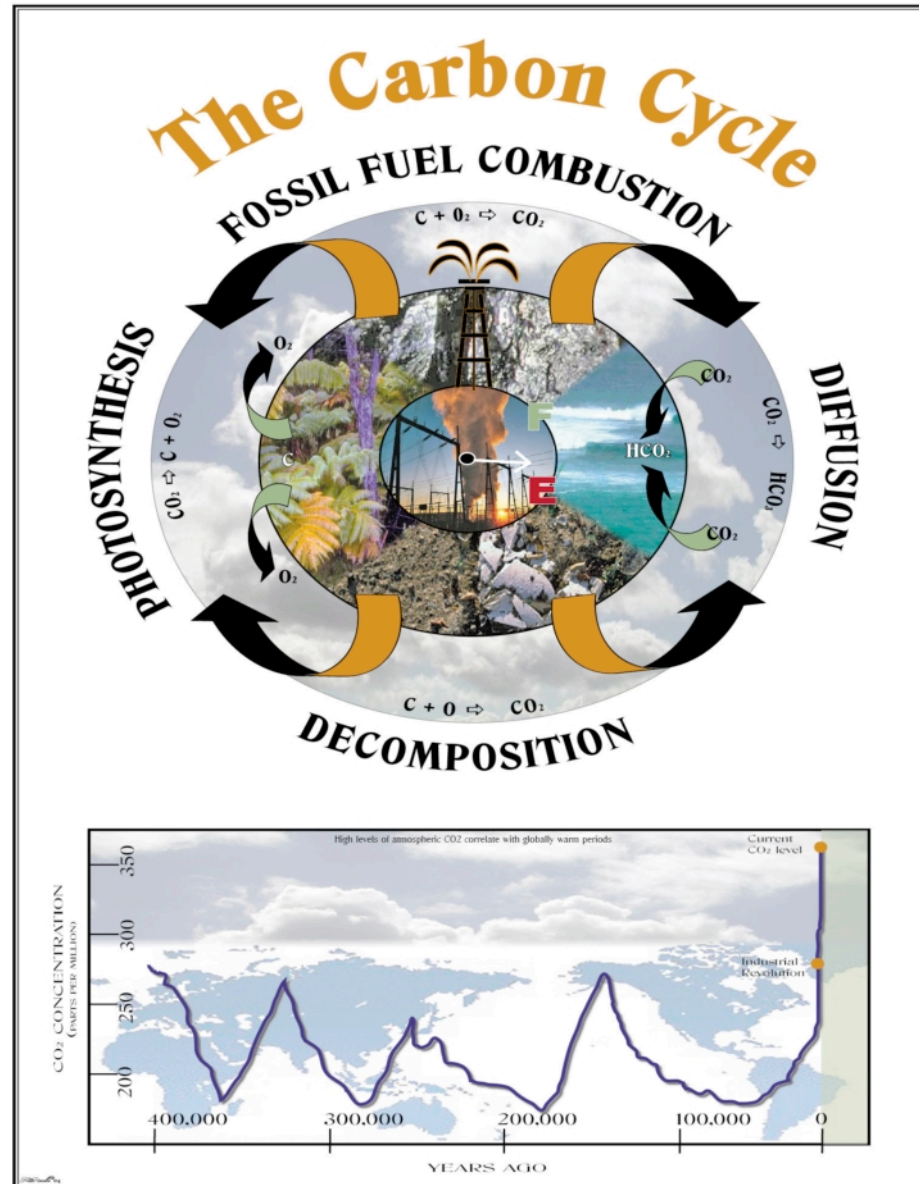
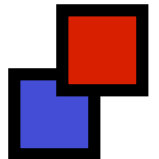
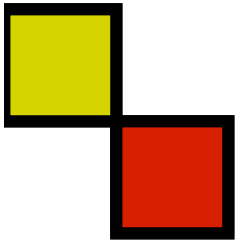
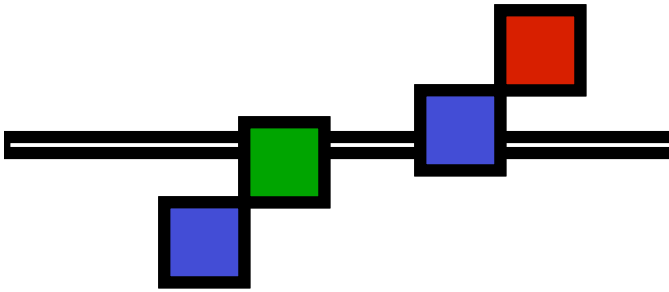
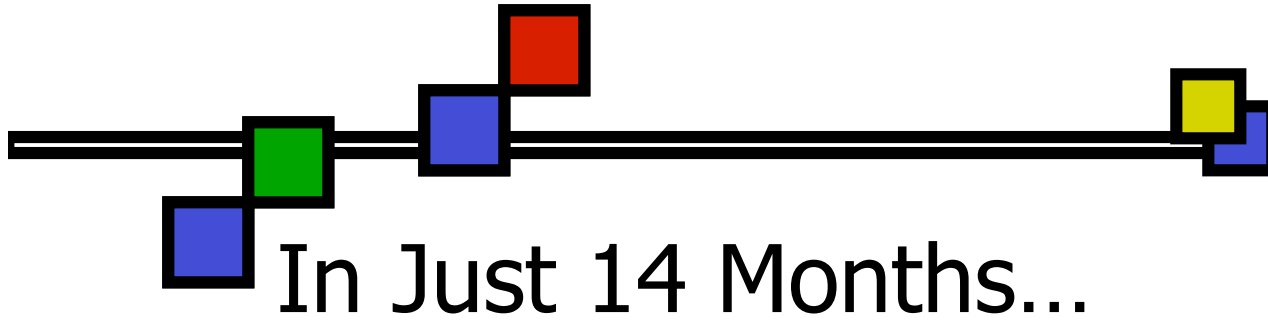


The DOUGLAS Environmental Plan for State Government

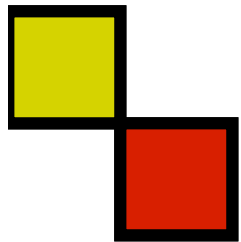


Thomas W. Torti
Commissioner
Department of Buildings and General Services



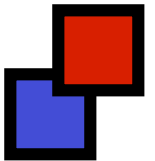


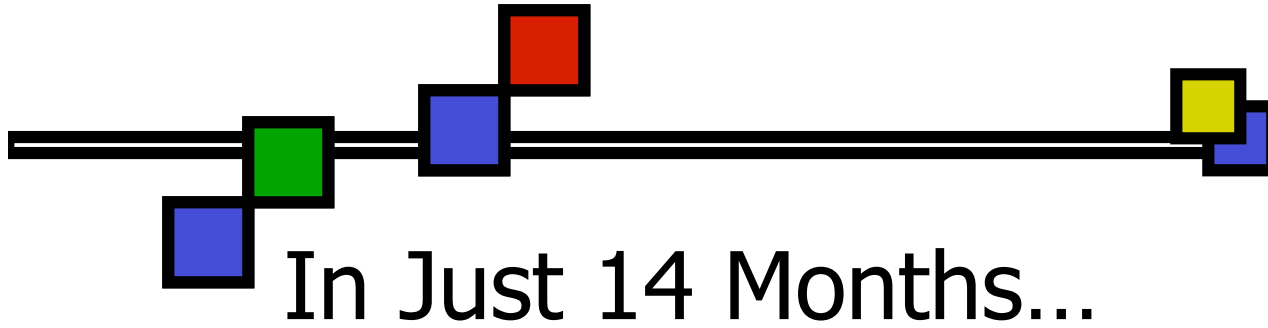
In Just 14 Months...



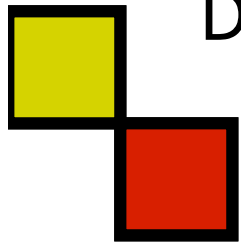
The State of Vermont developed a Comprehensive Plan to:

- Reduce Environmental Impact of State Government
- Save Operations Revenue thru Energy Savings
- Create Market Demand for Environmentally Preferable Products (Especially Vermont Products)
- Demonstrate that Fiscal Responsibility and Environmental Stewardship Go Hand in Hand



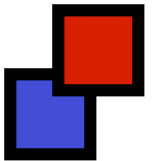


In Just 14 Months...



Defined Three (3) Target Areas of Greatest Influence

- Management of State Facility Infrastructure
- State Purchasing
- Transportation Management thru
 - Comprehensive Legislation
 - Updated Executive Orders
 - A Comprehensive Energy and GHG Reduction Policy





In Just 14 Months...



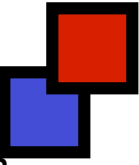
STATE PURCHASING

- Identified Contracts with an Environmental Marker
- Established Annual Review for “Environmental” Products
- Expanded Suppliers of Chlorine-Free Paper
- Revised and Updated Green Cleaning Supply Products
- Expanded Closed-Loop Purchasing Contracts
 - Information Centers

Market Development

- Preference for Vermont Water Struck Brick
- Preference for Vermont Stone Product
- Preference for Vermont Wood Produced from Sustainably Managed Forests

Proposed Legislation to:

- 
- Transferred responsibility for Price Factor/Life Cycle Analysis to the Department of Buildings and General Services
 - Increase Recycled Price Preference from 5% - 10%
 - Increase use of Recycled Products – 40% by 2008



In Just 14 Months...

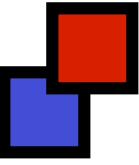
TRANSPORTATION MANAGEMENT



Demand Management

- Link Express (CMAQ Grant)
- MPO Transit Funding Task Force
- Developing Work Site based Video Conferencing (DII and BGS)
- Exploring a Montpelier – Waterbury Shuttle
- Incorporating “Ride Share” into the State Fleet Program

TRANSPORTATION EFFICIENCY

- 
- **Established Fleet Management Program**
 - Alternative Fuel Vehicles
 - Right Sizing Fleet
 - Ride Share
 - **Video Conferencing**
 - **Fuel Switching**
 - Bio Diesel
 - Electric car for Security Workers



In Just 14 Months...

LEGISLATION



Capital Bill

- Requires new state government Energy Plan by 6/30/05
- Requires Monitoring of Energy Resources used
- Requires Strategy to Reduce Fuel Consumption and GHF Emissions
- Requires Purchase based on Life Cycle and Environmental Considerations
- Requires the use of Highest Practical Energy Systems in all new construction and major renovations
- Requires future Capital Budgets to address Energy Issues
- Includes \$1 Million Request
 - Waterbury Improvements
 - Energy Measurement in Montpelier

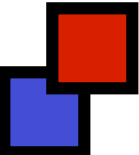
Big Bill – Capital Bill

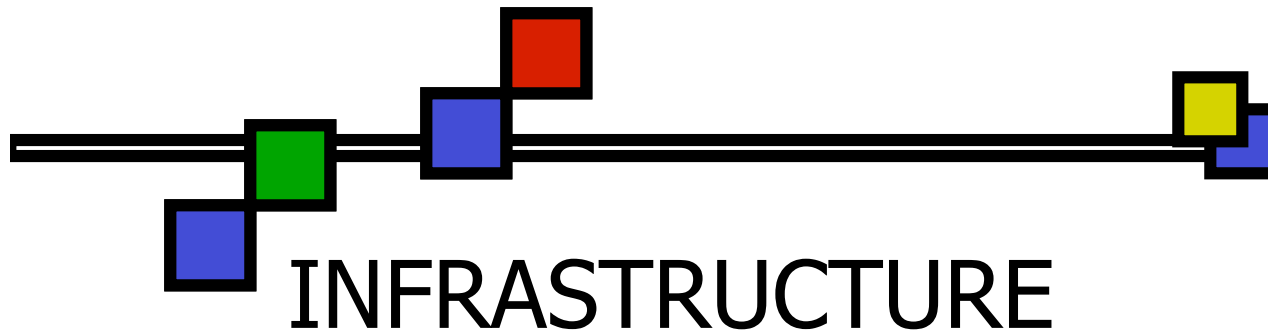
- Clean and Clear Programs

Executive Orders

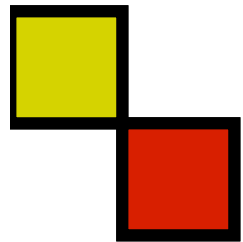
- Climate Change Action Plan
- Clean State Program

Policy – Procedures

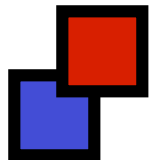
- Transfer Environmental Coordinator to BGS
 - State's CREMP
- 



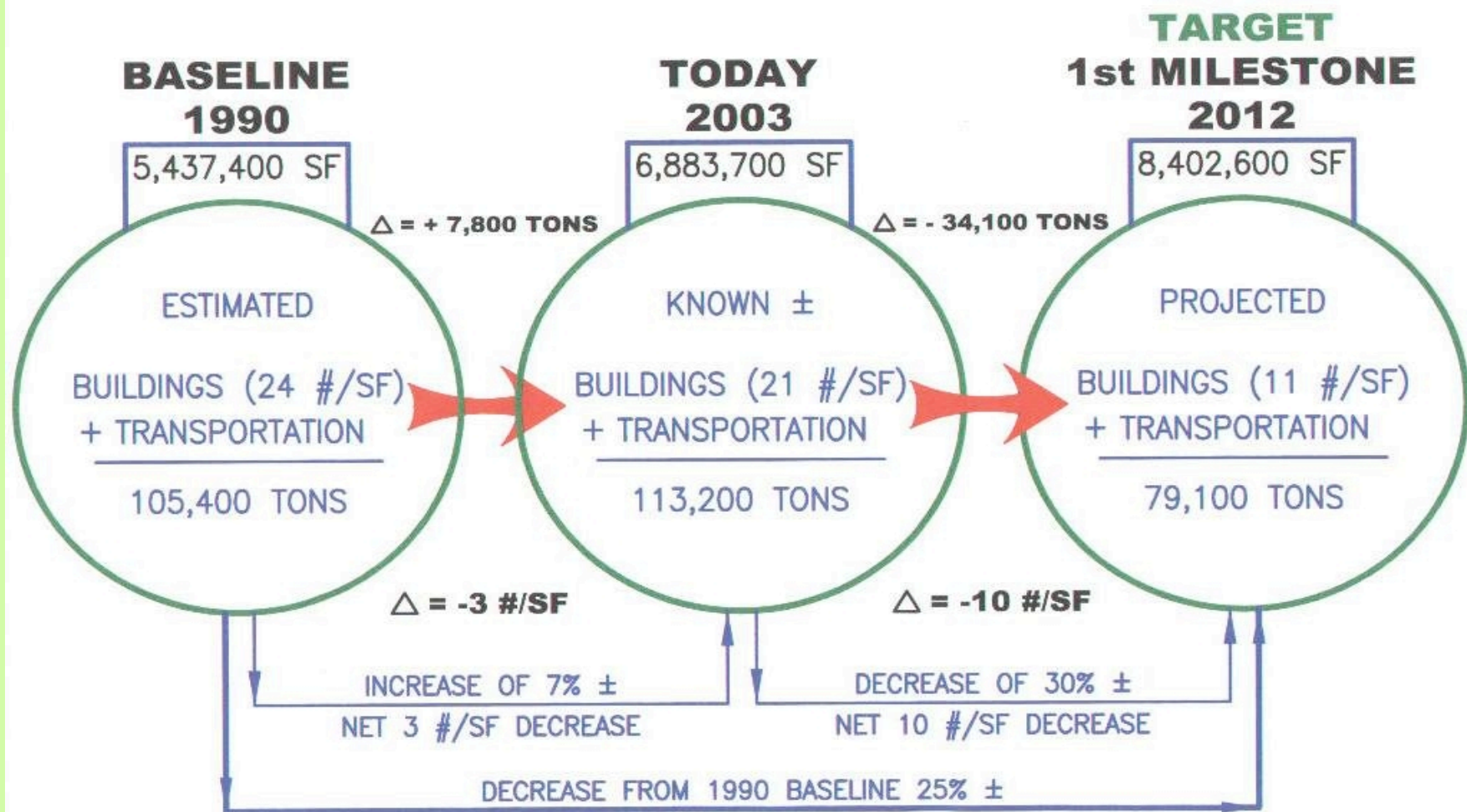
INFRASTRUCTURE



- Quantified Electric and Thermal Use by State Government
- Developed GHG Reduction Goals and Strategies
 - New Buildings to be 30% more efficient than code
 - Sustainable Sites
 - Energy Control Devices
 - Biomass and Co-generation Preference
 - Water Use/Consumption
 - Emissions: Noise-Light-Particulate



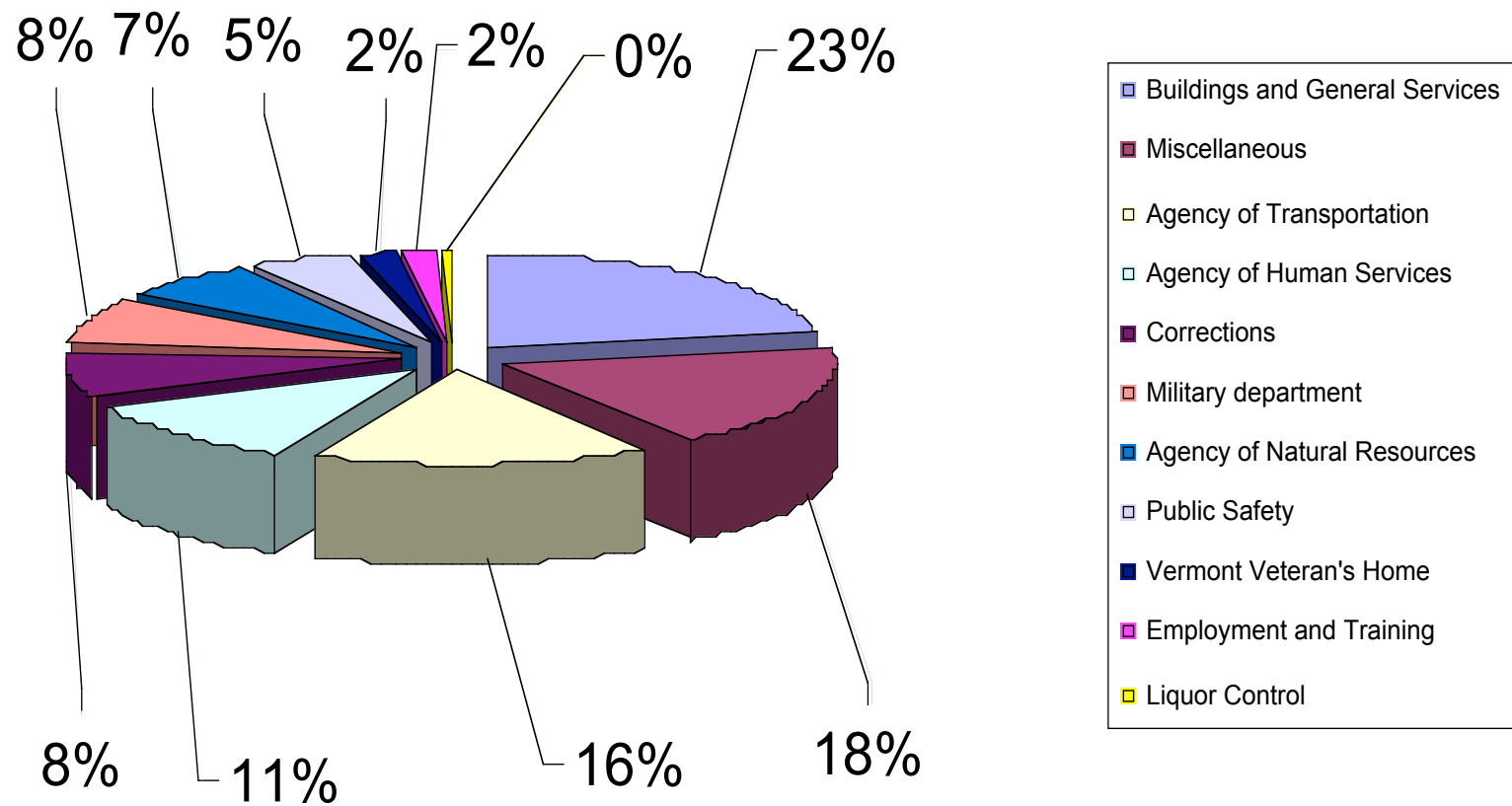
GREENHOUSE GAS EMISSIONS STRATEGY



Total Energy Cost by User Group – FY'03

| User Group | Energy Costs | Percent of Total |
|--------------------------------|---------------------|------------------|
| Buildings and General Services | \$4,444,806 | 23% |
| Miscellaneous | \$3,562,845 | 18% |
| Agency of Transportation | \$3,205,599 | 16% |
| Agency of Human Services | \$2,252,823 | 11% |
| Corrections | \$1,640,988 | 8% |
| Military Department | \$1,536,885 | 8% |
| Agency of Natural Resources | \$1,324,263 | 7% |
| Public Safety | \$990,681 | 5% |
| Vermont Veteran's Home | \$342,122 | 2% |
| Employment and Training | \$334,618 | 2% |
| Liquor Control | \$98,433 | 0.5% |
| Total | \$19,734,063 | 100% |

Total Energy Cost by User Group – FY'03



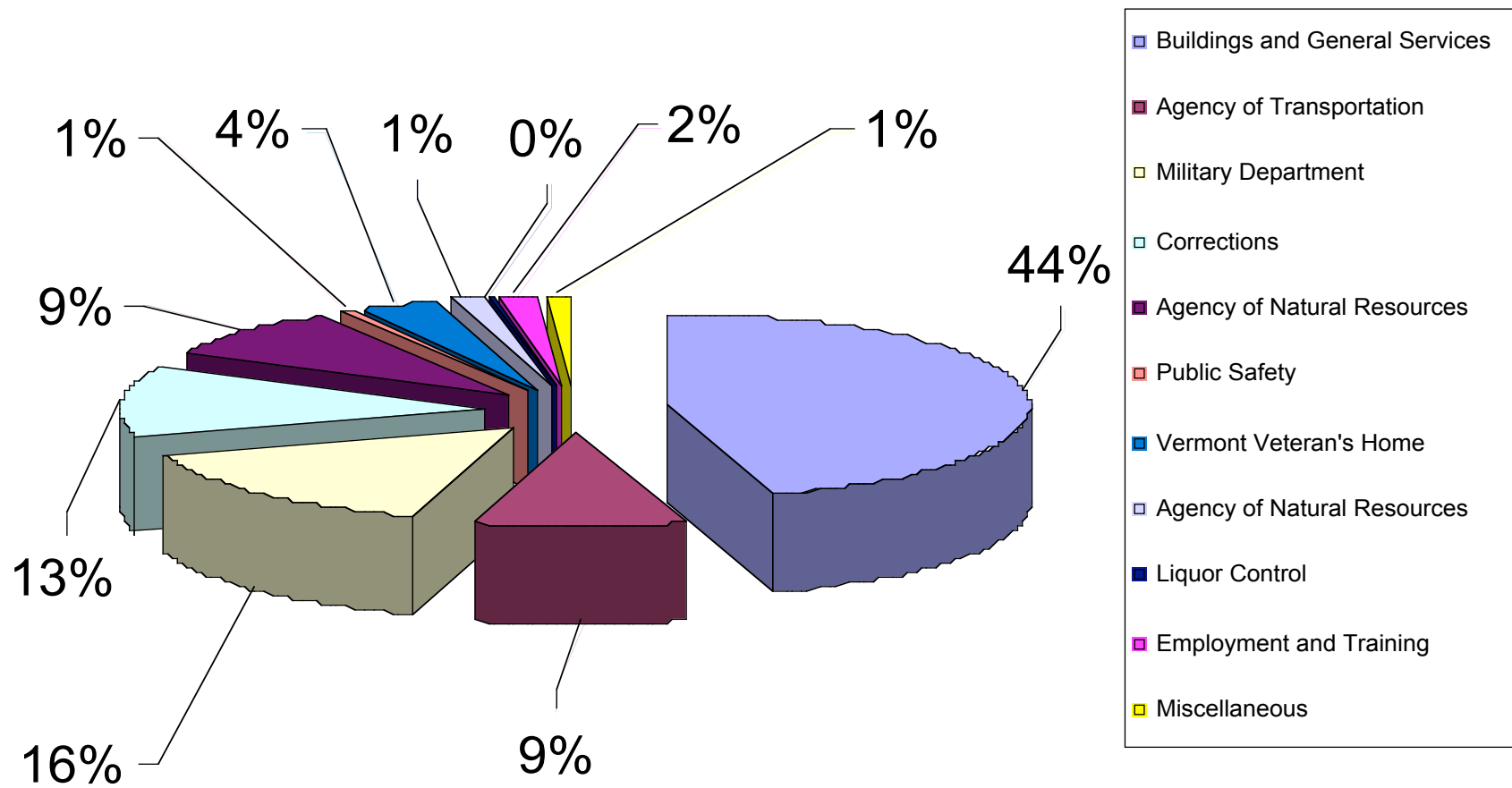
Transportation Sector Fuel Costs by User Group

| User Group | Transportation Fuel Costs | | | |
|---------------------------------------|---------------------------|--------------------|---------------------|---------------|
| | Gasoline | Diesel | Total Cost | Percent Total |
| Buildings and General Services | \$184,690 | \$31,296 | \$215,986 | 2% |
| Agency of Transportation | \$922,388 | \$1,421,204 | \$2,343,592 | 23% |
| Military Department | \$38,680 | \$13,843 | \$52,523 | 1% |
| Corrections | \$471,299 | \$1,492 | \$472,791 | 5% |
| Agency of Natural Resources | \$523,715 | \$3,356 | \$527,071 | 5% |
| Public Safety | \$937,263 | \$752 | \$938,014 | 9% |
| Vermont Veteran's Home | \$8,904 | \$271 | \$9,175 | 0% |
| Agency of Natural Resources | \$2,129,727 | \$0 | \$2,129,727 | 20% |
| Liquor Control | \$63,859 | \$0 | \$63,859 | 1% |
| Employment and Training | \$186,511 | \$0 | \$186,511 | 2% |
| Miscellaneous (includes reimb) | \$3,451,429 | \$1,851 | \$3,453,280 | 33% |
| Totals | \$8,918,465 | \$1,474,065 | \$10,392,530 | 100% |

Total Infrastructure Sector Energy Cost by User Group

| | Electricity | Building Fuel | Total Cost | Percent |
|--------------------------------|--------------------|--------------------|--------------------|-------------|
| Buildings and General Services | \$2,756,339 | \$1,472,481 | \$4,228,820 | 45% |
| Agency of Transportation | \$687,848 | \$174,160 | \$862,008 | 9% |
| Military Department | \$871,121 | \$613,241 | \$1,484,362 | 16% |
| Corrections | \$697,233 | \$470,963 | \$1,168,196 | 13% |
| Agency of Natural Resources | \$460,574 | \$336,618 | \$797,192 | 9% |
| Public Safety | \$46,179 | \$6,488 | \$52,667 | 1% |
| Vermont Veteran's Home | \$128,786 | \$204,161 | \$332,947 | 4% |
| Agency of Natural Resources | \$115,635 | \$7,461 | \$123,095 | 1% |
| Liquor Control | \$18,509 | \$16,065 | \$34,574 | 0% |
| Employment and Training | \$103,296 | \$44,811 | \$148,107 | 2% |
| Miscellaneous | \$86,595 | \$22,969 | \$109,565 | 1% |
| Totals | \$5,972,114 | \$3,369,419 | \$9,341,533 | 100% |

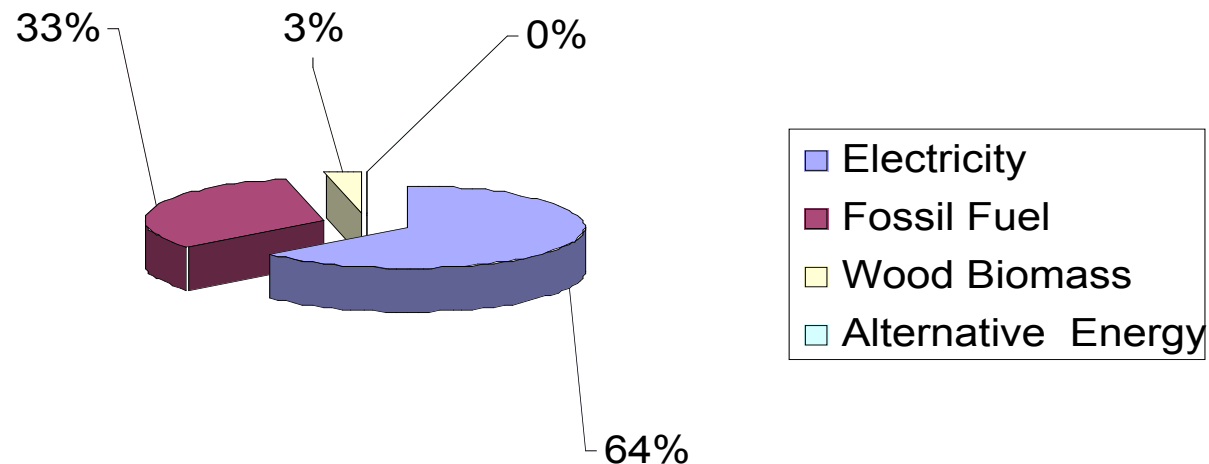
Total Infrastructure Sector Energy Cost by User Group



Infrastructure Sector Cost by Commodity

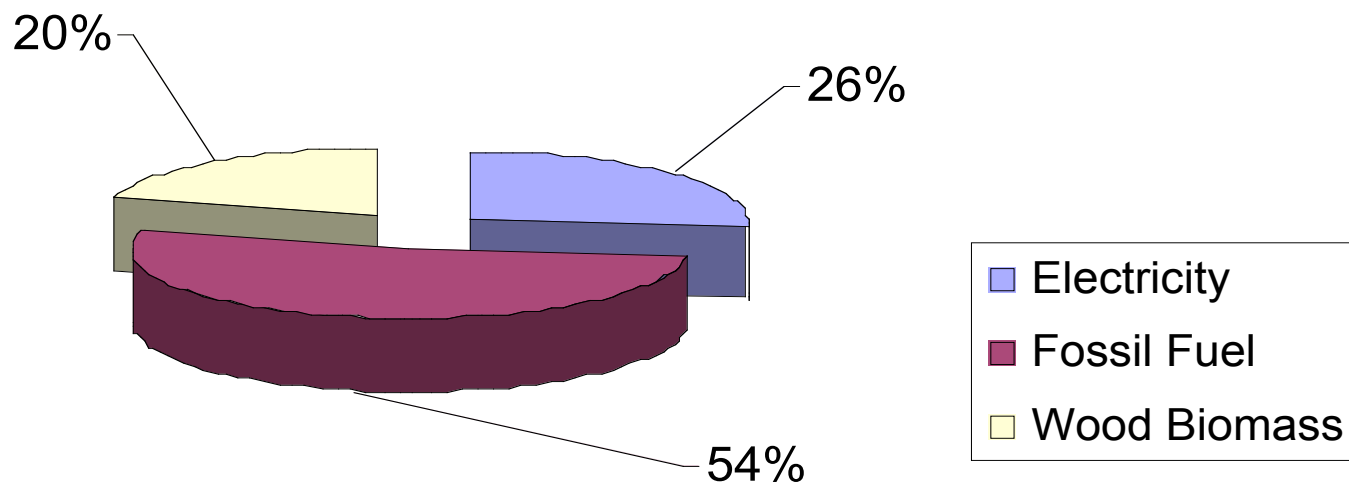
| Commodity | Costs | Percent |
|--------------------|--------------------|-------------|
| Electricity | \$5,972,114 | 64% |
| Fossil Fuel | \$3,052,944 | 33% |
| Wood Biomass | \$316,475 | 3% |
| Alternative Energy | \$0 | 0% |
| Total | \$9,341,533 | 100% |

Infrastructure Energy Costs by Commodity



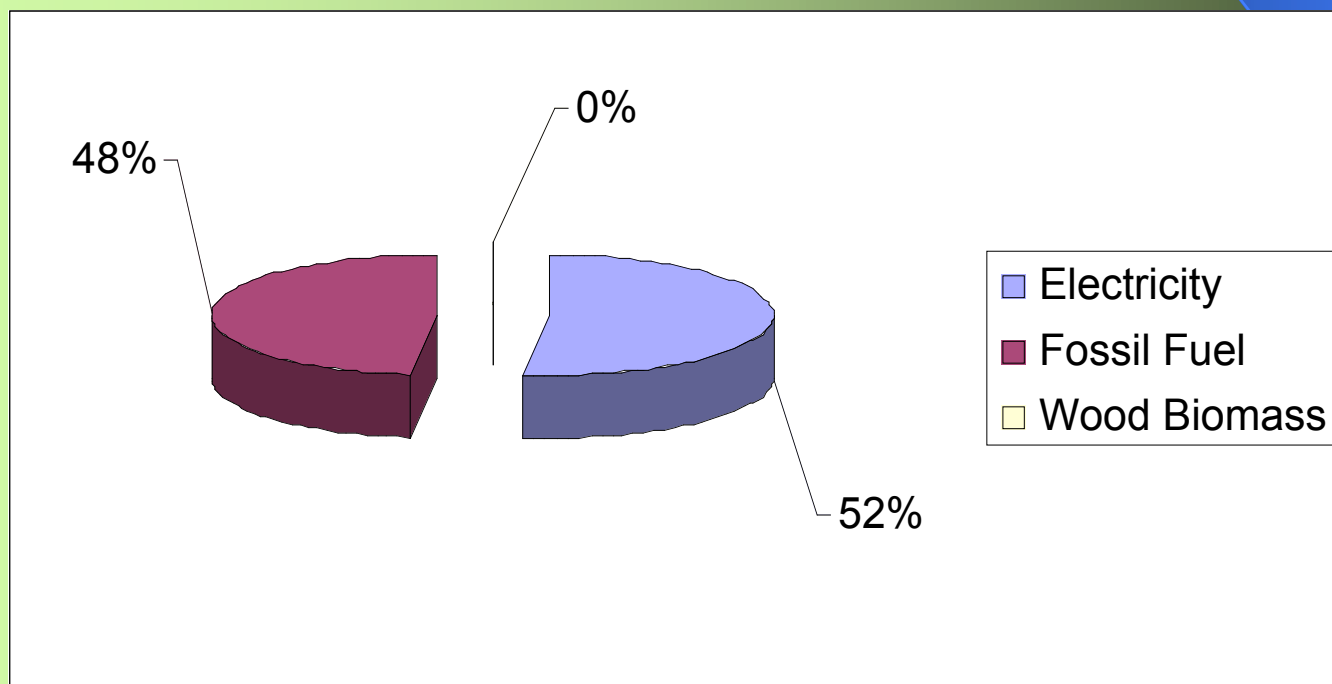
Infrastructure Sector Energy Consumption by Commodity

| Commodity | Energy in MMBTUs | Percent |
|--------------|---------------------|-------------|
| Electricity | 217,312 | 26% |
| Fossil Fuel | 449,068 | 54% |
| Wood Biomass | 165,277 | 20% |
| Total | 831,657 | 100% |



Infrastructure Sector GHG Emissions by Commodity

| Commodity | Tons of GHG Emissions | Percent |
|--------------|-----------------------|-------------|
| Electricity | 37,248 | 52% |
| Fossil Fuel | 34,521 | 48% |
| Wood Biomass | 0 | 0% |
| Total | 71,769 | 100% |



STATE OF VERMONT ENERGY CONSERVATION PROJECTS

